



RXQ Series

Features

- 105°C, 8,000 ~ 10,000 hours assured
- Suitable for switching power supplies, UPS, Ballast
- Smaller case size current
- RoHS Compliance

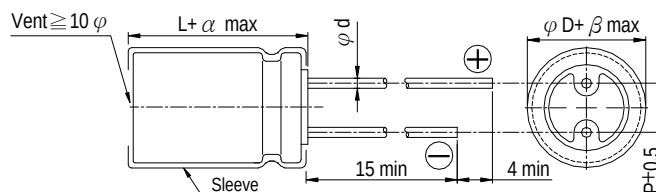


Sleeve & Marking Color: Black & Golden

Specifications

Items	Performance							
Category Temperature Range	160 ~ 400V				450V			
	-40°C ~ +105°C				-25°C ~ +105°C			
Capacitance Tolerance	±20% (at 120Hz, 20°C)							
Leakage Current (at 20°C)	Time		after 5 minutes					
	Leakage Current		CV ≤ 1,000 I = 0.03CV + 15(μA)		CV > 1,000 I = 0.02CV + 25(μA)			
			Where, C = rated capacitance in μF V = rated DC working voltage in V					
Dissipation Factor (Tanδ at 120Hz, 20°C)								
	Rated Voltage	160	200	250	350	400	450	
	Tanδ (max)	0.20	0.20	0.20	0.24	0.24	0.24	
Low Temperature Characteristics (at 120Hz)	Impedance ratio shall not exceed the values given in the table below.							
	Rated Voltage		160	200	250	350	400	450
	Impedance Ratio	Z(-25°C)/Z(+20°C)	3	3	3	5	5	6
		Z(-40°C)/Z(+20°C)	6	6	6	6	6	-
Endurance	Test Time		8,000 Hrs for ϕ D = 10mm; 10,000 Hrs for ϕ D ≥ 12.5mm					
	Capacitance Change		Within ±20% of initial value					
	Dissipation Factor		Less than 200% of specified value					
	Leakage Current		Within specified value					
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage applied with rated ripple current for 8,000 / 10,000 hours at 105°C.							
Shelf Life Test	Test Time		1,000 Hrs					
	Capacitance Change		With in ±20% of initial value					
	Dissipation Factor		Less than 200% of specified value					
	Leakage Current		Less than 500% of specified value					
	* The above Specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without voltage applied. The rated voltage shall be applied to the capacitors before the measurements (Refer to JIS C 5101-4 4.1).							
Ripple Current & Frequency Multipliers								
	Frequency (Hz)		120	1k	10k	100k up		
	Cap. (μF)							
	6.8 ~ 82	1.00	1.75	2.25	2.50			
	100 up	1.00	1.67	2.05	2.25			

Diagram of Dimensions

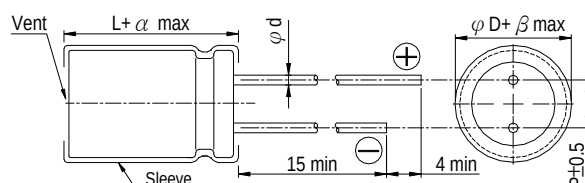


Lead Spacing and Diameter

Unit: mm

ϕD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
ϕd	0.6		0.8	
α	L<20: 1.5, L $\geq$ 20: 2.0			
β	0.5			

The case size of 16×20, 18×20 and 18×25 are suitable for below diagram:





Dimension: $\phi D \times L(mm)$

Ripple Current: mA/rms at 105°C

Dimension & Permissible Ripple Current

V.DC Contents μF	160V (2C)				200V (2D)				250V (2E)				350V (2V)				400V (2G)			
	$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current			$\phi D \times L$	Ripple Current		
		120 Hz	100k Hz			120 Hz	100k Hz			120 Hz	100k Hz			120 Hz	100k Hz			120 Hz	100k Hz	
6.8													10×16	110	275		10×16	110	275	
10	10×12.5	100	250		10×16	125	313		10×20	140	350		10×20	140	350		10×20	140	350	
22	10×16 10×20	170 200	425 500		10×20	200	500		10×20	200	500		12.5×20	260	650		12.5×20	260	650	
33	10×20	250	625		10×20	260	650		12.5×20	320	800		16×20	360	900		16×20	360	900	
47	10×20	300	750		12.5×20	390	975		12.5×20	390	975		16×20	430	1,075		16×25 18×20	470 450	1,175 1,125	
68	12.5×20	470	1,175		12.5×20	470	1,175		16×20	520	1,300		16×25 18×20	560 550	1,400 1,375		18×25	585	1,463	
82	12.5×20	510	1,275		16×20	550	1,375		16×20	550	1,375		18×25	610	1,525		18×25	610	1,525	
100	12.5×25 16×20	620 630	1,395 1,418		16×20	630	1,418		16×25	680	1,530		18×25	700	1,575		18×31.5	765	1,721	
120													18×31.5	830	1,868		18×35.5	865	1,946	
150	16×25	770	1,733		16×25	840	1,890		18×25	860	1,935		18×35.5	960	2,160		18×40	985	2,216	
220	16×31.5	1,020	2,295		18×25	1,050	2,363		18×31.5	1,130	2,543									
330	18×35.5	1,390	3,128		18×35.5	1,430	3,218													

V.DC Contents μF	450V (2W)			
	$\phi D \times L$	Ripple Current		
		120 Hz	100k Hz	
6.8	10×20	110	275	
10	12.5×20	180	450	
22	16×20	290	725	
33	16×25 18×20	390 380	975 950	
47	18×25	480	1,200	
68	18×31.5	630	1,575	
82	18×35.5	715	1,788	
100	18×40	800	1,800	